



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 18 81 42 41

Classification of the application (IPC):

B01D 39/20, B01D 46/00, B01D 53/94, F01N 3/022, F01N 3/033, F01N 3/035, F01N 3/10, F01N 3/24, F01N 3/28, F01N 13/00

Technical fields searched (IPC):

F01N, B01D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y	US 2016138448 A1 (ITOH KAZUHIRO [JP] ET AL) 19 May 2016 (2016-05-19) * paragraphs [0004] - [0016], [0034] - [0063] * * figures 1-10 *	3, 4 5
Y A	JP 2016055282 A (NGK INSULATORS LTD) 21 April 2016 (2016-04-21) * paragraphs [0001] - [0075] * * figures 1-5 *	5 1-4
A	DE 112015000166 T5 (MAZDA MOTOR [JP]) 25 May 2016 (2016-05-25) * the whole document *	1-5
A	US 2013149207 A1 (CASTAGNOLA MARIO JAIME [US] ET AL) 13 June 2013 (2013-06-13) * the whole document *	1-5
A	WO 2015059904 A1 (MAZDA MOTOR [JP]) 30 April 2015 (2015-04-30) * the whole document *	1-5

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 28 February 2020	Examiner Buecker, Christian
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CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 28-02-2020
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